WHAT IS CLAIMED IS:

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- 1. A fastener assembly, comprising:
 - a) a nut having a torque transmitter;
 - b) the torque transmitter is shaped to transmit torque; and
 - c) a cap that is shaped according to the nut, wherein the cap is retained on the nut so that an interference fit is achieved between the cap and the nut.
- 2. A fastener assembly according to claim 1, wherein the cap is configured to cooperate with a wrench.
 - 3. A fastener assembly according to claim 1, wherein the cap is shaped to fit within a wrench.
- 4. A fastener assembly according to claim 1, wherein the cap is shaped so that a wrench applies torque to the torque transmitter.
 - 5. A fastener assembly, comprising:
 - a) a nut and a washer rotatable relative to each other about a common axis;
 - b) an annular surface on the nut and a bearing surface on the washer being axially opposed to each other;
 - the annular surface on the nut and the bearing surface on the washer are undulating in shape; and
 - d) a clamping surface on the washer.
 - 6. A fastener assembly according to claim 5, further comprising a clamping surface on the washer having a plurality of protrusions.
- 7. A fastener assembly according to claim 5, wherein the bearing surface and annular surface are undulating in shape and provided with a plurality of

plateaus, faces, and valleys.

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- 8. A fastener assembly according to claim 5, further comprising:
 - a) the bearing surface and annular surface having a plurality of plateaus, faces, and valleys; and
 - b) a height that is dimensioned according the distance between the plateaus and the valleys and according to a clearance between threads on the nut and threads on a stud.
- 10 9. A fastener assembly according to claim 5, further comprising:
 - a) the bearing surface and annular surface having a plurality of plateaus, faces, and valleys; and
 - b) a height that is dimensioned according the distance between the plateaus and the valleys, wherein the height is slightly greater than a clearance between threads on the nut and threads on a stud.
 - 10. A fastener assembly according to claim 5, further comprising:
 - a) the bearing surface and annular surface having a plurality of plateaus, faces, and valleys; and
- 20 b) a height that is dimensioned according the distance between the plateaus and the valleys and according to a number of threads per inch on the nut.
 - 11. A fastener assembly according to claim 5, further comprising:
- 25 a) the bearing surface and annular surface having a plurality of plateaus, faces, and valleys;
 - b) the plateaus, faces, and valleys providing the bearing surface and annular surface with a number of Vee-shaped undulations; and
 - c) a height that is dimensioned according the distance between the plateaus and the valleys and according to the number of Veeshaped undulations.

- 12. A fastener assembly according to claim 5, further comprising:
 - the bearing surface and annular surface having a plurality of plateaus, faces, and valleys;
 - b) the plateaus, faces, and valleys providing the bearing surface and annular surface with a number of Vee-shaped undulations; and
 - c) a height that is dimensioned according the distance between the plateaus and the valleys and according to the number of Veeshaped undulations and a number of threads per inch on the nut.

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- 13. A fastener assembly according to claim 5, further comprising:
 - the bearing surface and annular surface having a plurality of plateaus, faces, and valleys;
 - b) the plateaus, faces, and valleys providing the bearing surface and annular surface with a number of Vee-shaped undulations; and
 - c) a height that is dimensioned according the distance between the plateaus and the valleys and that is proportional to a product of the number of Vee shaped undulations and a number of threads per inch on the nut.

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- 14. A fastener assembly, comprising:
 - a) a nut configured to retain a cap;
 - b) a washer having a bearing surface;
 - c) the nut and the washer being rotatable relative to each other about common axis;
 - d) the nut having an annular surface axially opposed to the bearing surface; and
 - e) the annular surface and the bearing surface are undulating in shape.

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15. A locking fastener assembly according to claim 14, further comprising a

clamping surface on the washer.

- 16. A locking fastener assembly according to claim 14, further comprising a clamping surface on the washer having a plurality of protrusions.
- 17. A locking fastener assembly according to claim 14, wherein the nut is configured to retain a cap via an interference fit.
- 18. A locking fastener assembly according to claim 14, further comprising a cap, wherein the cap is retained on the nut so that an interference fit is achieved between the cap and the nut.
 - 19. A fastener assembly, comprising:
 - a) a nut having a torque transmitter shaped to transmit torque and a retaining surface;
 - b) the retaining surface is configured to retain the cap;
 - c) the cap is dimensioned according to the nut, wherein the cap is retained on the nut so that an interference fit is achieved between the cap and retaining surface.

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- 20. A fastener assembly, comprising:
 - a) a nut having a torque transmitter and a retaining surface:
 - b) the retaining surface is configured to retain a cap; and
 - c) the cap is shaped according to the nut, wherein the cap is retained on the nut so that an interference fit is achieved between the nut and the cap.

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21. A fastener assembly according to claim 20, wherein the retaining surface is provided with a frictional surface.

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22. A fastener assembly according to claim 20, wherein the retaining surface

is provided with a frictional surface having an increased frictional coefficient.

23. A fastener assembly according to claim 20, wherein the retaining surface is provided with a plurality of notches at an angle.

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- 24. A fastener assembly according to claim 20, wherein the retaining surface is provided with a frictional surface that is provided with a plurality of notches at an angle between 30° and 60° with respect to an axis of the nut.
- 10 25. A fastener assembly according to claim 20, wherein the retaining surface is provided with a frictional surface having a plurality of notches at an angle of 45° with respect to an axis of the nut.
- 26. A fastener assembly according to claim 20, wherein an inner surface of the cap is shaped so that an interference fit is achieved with the retaining surface.
 - 27. A fastener assembly, comprising:
 - a) a washer having a bearing surface;

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- b) a nut having a torque transmitter shaped to transmit torque, a retaining surface configured to retain a cap, and an annular surface that is opposed to the bearing surface on the washer;
- c) the washer and nut are assembled together whereby the washer and nut rotate with respect to each other; and

- d) the cap is shaped so that a socket wrench applies torque to the torque transmitter rather than the cap and so that an interference fit can be achieved with the retaining surface.
- 28. A fastener assembly according to claim 27, wherein the annular surface and the bearing surface are undulating in shape.

- A fastener assembly according to claim 27, wherein the annular surface and the bearing surface are provided with a Vee shaped profile.
- 30. A fastener assembly, comprising:

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- a) a washer having a bearing surface;
 - a nut having a torque transmitter shaped to transmit torque, a retaining surface configured to retain a cap, and an annular surface that is opposed to the bearing surface on the washer;
 - c) wherein the washer and nut are assembled together whereby the washer and nut rotate with respect to each other; and
 - d) wherein the cap is retained on the nut so that an interference fit is achieved between the cap and the retaining surface.
- 31. A fastener assembly according to claim 30, wherein the annular surface and bearing surface are undulating in shape.
 - 32. A fastener assembly according to claim 30, wherein the annular surface and the bearing surface include a Vee shaped profile.
- 20 33. A fastener assembly, comprising:
 - a) a washer having a bearing surface;
 - a nut having a torque transmitter shaped to transmit torque, and an annular surface that is opposed to the bearing surface on the washer;
 - c) the washer and the nut being assembled together whereby the washer and nut rotate with respect to each other; and
 - d) wherein the annular surface and the bearing surface are provided with a number of Vee shaped undulations.
- 30 34. A fastener assembly according to claim 33, further comprising a clamping surface configured to prevent the washer from rotating.

- 35. A fastener assembly according to claim 33, wherein the washer is provided with a clamping surface having a plurality of protrusions.
- 5 36. A fastener assembly according to claim 33, wherein:
 - a) the nut is provided with a predetermined number of threads per inch;
 - b) the Vee shaped undulations of the annular surface comprise a plurality of plateaus, faces, and valleys; and
- 10 c) wherein a height of the plateaus is dimensioned according to the threads on the nut.
 - 37. A fastener assembly according to claim 33, wherein:

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- a) the nut is provided with a predetermined number of threads per inch;
- the Vee shaped undulations of the annular surface comprise a plurality of plateaus, faces, and valleys;
- wherein a depth of the valleys is dimensioned according to the threads on the nut

38. A fastener assembly according to claim 33, wherein:

- a) the nut is provided with a predetermined number of threads per inch;
- b) the Vee shaped undulations of the annular surface comprise a plurality of plateaus, faces, and valleys; and
- c) wherein a height of the plateaus is dimensioned according to the number of undulations on the annular surface
- 39. A fastener assembly according to claim 33, wherein:
- a) the nut is provided with a predetermined number of threads per inch;

- b) the Vee shaped undulations of the annular surface comprise a plurality of plateaus, faces, and valleys; and
- c) wherein a depth of the valleys is dimensioned according to the number of undulations on the annular surface.

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- 40. A fastener assembly according to claim 33, wherein:
 - the nut is provided with a predetermined number of threads per inch;
 - b) the Vee shaped undulations of the bearing surface comprise a plurality of plateaus, faces, and valleys; and
 - c) wherein a height of the plateaus is dimensioned according to the threads on the nut.
- 41. A fastener assembly according to claim 33, wherein:
- 15 a) the nut is provided with a predetermined number of threads per inch;
 - b) the Vee shaped undulations of the bearing surface comprise a plurality of plateaus, faces, and valleys;
 - wherein a depth of the valleys is dimensioned according to the threads on the nut

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- 42. A fastener assembly according to claim 33, wherein:
 - a) the nut is provided with a predetermined number of threads per inch;
 - b) the Vee shaped undulations of the bearing surface comprise a plurality of plateaus, faces, and valleys; and
 - c) wherein a height of the plateaus is dimensioned according to the number of undulations on the bearing surface
- 30 43. A fastener assembly according to claim 33, wherein:
 - a) the nut is provided with a predetermined number of threads per

inch;

- b) the Vee shaped undulations of the bearing surface comprise a plurality of plateaus, faces, and valleys; and
- c) wherein a depth of the valleys is dimensioned according to the number of undulations on the bearing surface.

44. A fastener assembly according to claim 33, wherein:

- a) the nut is provided with a predetermined number of threads per inch;
- b) the Vee shaped undulations of the annular surface comprise a plurality of plateaus, faces, and valleys; and
 - c) wherein a height of the plateaus is proportional to the product of the number of threads per inch on the nut and the number of Vee shaped undulations on the annular surface.

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- 45. A fastener assembly according to claim 33, wherein:
 - a) the nut is provided with a predetermined number of threads per inch;
 - b) the Vee shaped undulations of the annular surface comprise a plurality of plateaus, faces, and valleys; and
 - c) wherein a depth of the valleys is proportional to the product of the number of threads per inch on the nut and the number of Vee shaped undulations on the annular surface.

25 46. A fastener assembly according to claim 33, wherein:

- a) the nut is provided with a predetermined number of threads per inch;
- b) the Vee shaped undulations of the bearing surface comprise a plurality of plateaus, faces, and valleys; and
- 30 c) wherein a height of the plateaus is proportional to the product of the number of threads per inch on the nut and the number of Vee

shaped undulations on the bearing surface.

47. A fastener assembly according to claim 33, wherein:

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- a) the nut is provided with a predetermined number of threads per inch;
- b) the Vee shaped undulations of the bearing surface comprise a plurality of plateaus, faces, and valleys; and
- c) wherein a depth of the valleys is proportional to the product of the number of threads per inch on the nut and the number of Vee shaped undulations on the bearing surface.